

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/016528

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G08C17/02, B60C23/04, B60C23/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G08C17/02, B60C23/04, B60C23/20

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1922-1996 | Jitsuyo Shinan Toroku Koho | 1996-2005 |
| Kokai Jitsuyo Shinan Koho | 1971-2005 | Toroku Jitsuyo Shinan Koho | 1994-2005 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| X Y A | JP 2002-211219 A (Kabushiki Kaisha RCT), 31 July, 2002 (31.07.02), Par Nos. [0014] to [0016]; Fig. 1 (Family: none) | 1, 5, 6, 8, 16 2-4, 7, 9-13, 17, 18 14, 15 |
| Y | JP 2003-002019 A (The Yokohama Rubber Co., Ltd.), 08 January, 2003 (08.01.03), Par Nos. [0061], [0077] to [0099], [0129] to [0136]; Figs. 1, 8, 9, 12, 21, 22 (Family: none) | 2-4, 7, 9-13, 17, 18 |
| Y | JP 2002-216281 A (Nokian Tyres PLC), 02 August, 2002 (02.08.02), Par Nos. [0051], [0060]; Figs. 4b, 6 & US 6441732 B1 & EP 1172236 A2 & NO 20013182 A | 2, 3, 11, 12 |

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier application or patent but published on or after the international filing date
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 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search
01 February, 2005 (01.02.05)

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15 February, 2005 (15.02.05)

Name and mailing address of the ISA/
Japanese Patent Office

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INTERNATIONAL SEARCH REPORT

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PCT/JP2004/016528

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Y | JP 2003-151064 A (Honda Motor Co., Ltd.), 23 May, 2003 (23.05.03), Par Nos. [0010], [0030]; Figs. 1, 5 & WO 03/042949 A1 | 4, 9, 10, 13 |
| Y | JP 2002-541003 A (Michelin Recherche et Technique S.A.), 03 December, 2002 (03.12.02), Par Nos. [0019] to [0021]; Fig. 1 & US 6217683 B1 & EP 1053113 A & EP 1235696 A & WO 00/47430 A1 | 17, 18 |
| A | WO 01/89896 A1 (ROBERT BOSCH GMBH), 29 November, 2001 (29.11.01), Full text; all drawings & JP 2003-534539 A & US 2004/036590 A1 & EP 1289809 A1 | 1-18 |
| A | JP 2003-182323 A (Sumitomo Electric Industries, Ltd.), 03 July, 2003 (03.07.03), Full text; all drawings (Family: none) | 1-18 |